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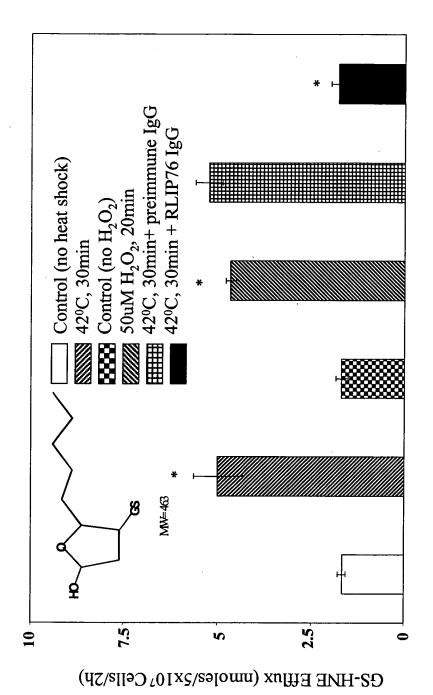
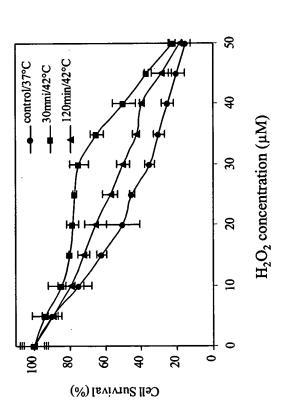


Fig.

 $(\dot{})$

1





Markers

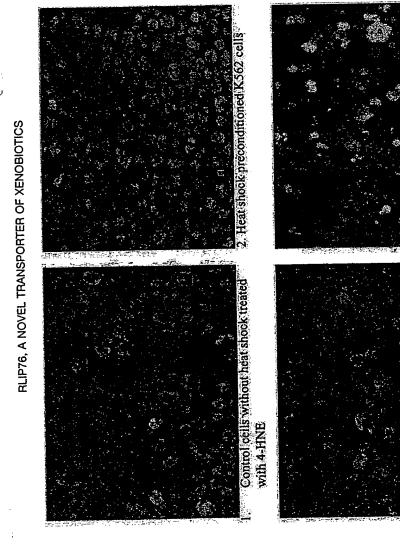
Control

 $H_2O_2(100 \, \mu M, 2 \, h)$

Heat shock pre-treatment

Heat shock pre-treatment $H_2O_2(100 \mu M, 2 h)$

 H_2O_2 pre-treatment + H_2O_2 (100 μ M, 2 h)



cells treated 4. Hears

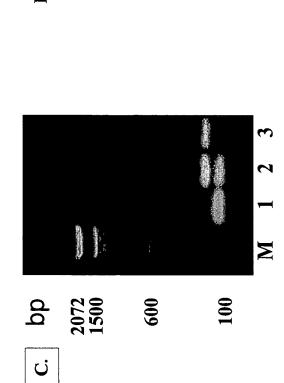
4. Hear snock precommonical consultations are many HNE after coating with anti-RLIP76 IgG

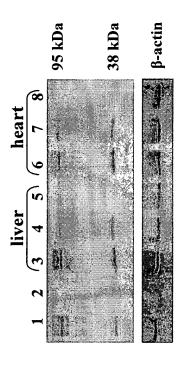
Sequence around the insertion site

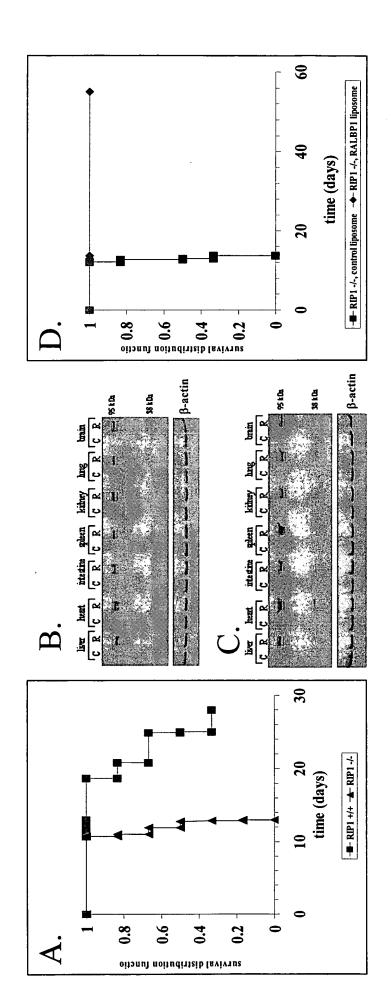
AGAATGTCACATTTTTAAAGTTGACTCTGCCTGOAGGGCTTGCTTTAGGTA-insertion site-TGCTATTTTACTTTGCCAAGATGCTGGAAGCTGAGT TAAGGCTGATGATTTATAAGGAAAAATCCAAAGGAGTCAAGTGTGGGTTAAGTACACCTTAATGATGTTAGTAGGTTTAAGAGGGTTAATTATGTA 5'TTTGTTAAATTTTCTA<u>TCTTCTCCTCACTCGTCCCT</u>TAACAGTTGCTGTTAATAAGGGGGACAGTATACACTAGACCCTGTTACAGTGCAGTTAT **GGGAAAC**AAGTTGTAGAGCTCAGTGGGGGGGGGGGGGCCAATGAGAAGTTTGCTTGTTAGACTAAGCCCCGGCCATAGGGAAGGTAAGTCAAAGAT ACAGCTCAGTTAGGTAATAATTGG 3'

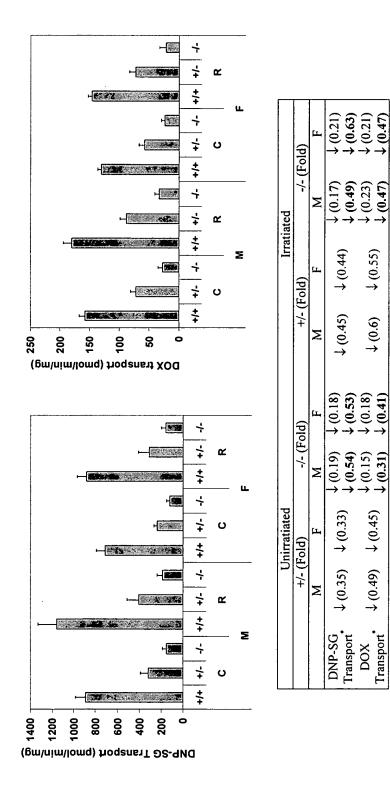
LTR-primer:5' - AAATGGCGTTACTTAAGCTAGCTTGC - 3'

B.









Organ		Н00Т	ЮН			TBARS	RS			CSH	H			99	GGCS	
	Ŧ	-/-	-/-	. 1	-/+		-/-		-/+		1-	-/-	+	-/-		-/-
	Σ	F	X	Ŀ	M	H	M	F	M	Έ	M	F	M	Ŧ	M	Œ
Liver		•	↓ (0.77) ↓ (0.79)	•	(61.0) ↑	,	↓(0.47) ↓(0.60)	↓ (0.63) ↓ (0.71)		(98.0) ↑	↓ (0.76) ↓ (0.77)	(0.86) -	↑ (3.63)	,	†(5.25) †(1.45)	↑(1.16) -
Lung	† (1.32)	†(1.23)	↑(1.62) ↑(1.23)	†(1.96) †(1.59)		,	(1.17) -	(1.19) -	(61.1)	1 (1.07)	1(1.41)					
Kidney	Ť (1.20)	†(1.18)	↑(1.43) ↑(1.19)	↑(1.53) ↑(1.29)			1 (1.06)	1 1			(e1.19)	†(1.11) -	(0.65)		↓ (0.57) ↓ (0.85)	↓ (0.73) ↓ (0.80)
Heart	Ť (1.47)	† (1.75)	†(3.12) †(2.12)	↑(2.56) ↑(1.46)	† (1.26)		↑(1.93) ↑(1.54)	†(1.54) †(1.35)	† (1.55)	1(1.77)	↑(1.69) ↑(1.09)	† (1.88) -	(89'0) ↑	(0.70)	(0.60) ↓ (0.88)	↓ (0.54) ↓ (0.78)
Brain	•	(1.16)	†(1.32) †(1.25)	†(1.28) -	¢(1.16)	†(1.16)	†(1.61) †(1.38)	†(1.46) †(1.26)	† (1.45)	1(1.31)	(89.1) -	↑(1.41) -		†(I.15)	, ,	↓ (0.77) ↓ (0.67)
Intestine	Î (1.56)	†(1.55)	†(2.13) †(1.48)	↑(2.40) ↑(1.50)	1 (1.60)·	† (1.58)	↑(2.95) ↑(1.84)	†(2.98) †(1.40)	† (2.61)	1 (2.48)	1(2.91)	† (2.57)	(0.72)	(62.0)↑	↓ (0.58) ↓ (0.80)	↑ (0.70)
Spleen	Ť (1.63)	† (1.52)	† (2.99) † (1.83)	↑ (3.39) ↑ (2.23)	† (1.46)	† (1.47)	↑(2.54) ↑(1.73)	† (2.31) † (2.57)	•	(1.91)	Ť (1.22)	† (2.10)	(89.0) ↑	(9.76)	↓ (0.49) ↓ (0.72)	↓ (0.59) ↓ (0.78)
		CST	Τ			GPX	×			GR	R			95	G6PD	
Liver	f (1.26)	(1.09)	f (1.54) f (1.22)	† (1.46) † (1.35)	1(1.41)	† (1.42)	†(1.60) †(1.13)	†(1.58) -		(98.0) ↑	(0.60) ↓ (0.71)	↓ (0.71) ↓ (0.83)	↓ (0.74)	(0.72)	↑ (0.58) -	↓ (0.75)
Lung	(88.0) ↑	•		\$\dagger{\tau}{0.90}	(6:0) ↑	↓ (0.75)	(0.51)	(9.76) -		•	↓ (0.60) ↓ (0.70)	. ↓ (0.87)	↓ (0.75)	(0.86)	↓ (0.43) ↓ (0.57)	
Kidney	(62.0)↑	(20.77)	↓ (0.67) ↓ (0.86)	(9′.0) ↑ •	↓ (0.73)	(0.72)	↓ (0.62) ↓ (0.85)	(89·0) ↑ -	(99'0) ↑		↓ (0.64) -		•			
Heart	•	(82.0)		↓ (0.64) ↓ (0.83)	(16.31)	(0.61)	↓ (0.07) ↓ (0.22)	↓ (0.13) ↓ (0.22)	↓ (0.76)	↓ (0.72)	↓ (0.70) ↓ (0.92)	↓ (0.56) ↓ (0.78)	↓ (0.62)		(6:0)↑	(0.67) ↓ (0.81)
Brain	↓ (0.74)	(8.78)	(69:0) ↑	↓ (0.63) ↓ (0.81)	(0.44)	↓ (0.73)	↓ (0.24) ↓ (0.54)	↓ (0.41) ↓ (0.56)	(09:0)	(08.0)	↓ (0.52) ↓ (0.87)	(0.79) ↓ (0.86)			↑(1.60) ↑(1.50)	↓ (0.88) ↓ (0.81)
Intestine	(87.0) ↑	•	↓ (0.73) ↓ (0.81)	↓ (0.78) ↓ (0.87)	(0.51)	(6.65)	↓ (0.36) ↓ (0.70)	↓ (0.48) ↓ (0.15)	†(1.12)		†(1.12)		'		↑(1.20) ↑(1.12)	↓ (0.85)
Spleen	(09:0)	↓ (0.63)	(0.50) -	↓ (0.62) •	↓ (0.46)	↓ (0.63)	(0.38) •	↓ (0.49) ↓ (0.79)	↓ (0.75)	↓ (0.78)	↓ (0.59) -	↓ (0.67) -	(0.67)	↓ (0.87)	↓ (0.21) ↓ (0.32)	↓ (0.81) -

Organ		ГООН	ЭН			TBARS	RS			CSH	Н			CGCS	CS	
	-/+	-/	-/-	•	- /+	. 1	-/-		-/+	/	-/-		- /+	-/	-/-	
	M	Ŧ	M	Ŧ	W	Ŧ	M	Œ	M	F	M	Ŧ	M	F	M	Ŧ
Liver		† (1.37)		↑ (1.13)			↓ (0.57) ↓ (0.71)	(6.0) ↓ (0.78)		,	, ,		(3.93)		1 (4.45)	†(1.36) †(1.35)
Lung	Î (1.43)	†(1.30)	(1.67) † (1.77)	↑(2.10) ↑(1.71)		↑(1.28)	↑(1.25) ↑(1.28)	†(1.35) †(1.39)		†(1.07)	†(1.38) †(1.16)					
Kidney	↑ (1.44)	(1.27)	1 (1.43)	(1.61) (1.61)				1 (1.20)	1(1.14)	↑(1.11)		↑(1.24)	(0.84)		↓ (0.72)	↓ (0.85)
Heart	† (2.24)	† (2.04)	(1.19) † (3.35)	1 (1.36) 1 (2.88)	(09:1)	1(1.30)	† (1.11) † (2.24)	(1.20) ↑(1.76)	ĵ (1.59)	† (1.82)	1 (1.76) 1 (1.76)	† (1.27) † (2.07)	(18:0)	(0.84)	(59:0) ↑	↓ (0.71)
Brain	† (1.25)	†(1.30)	↑(1.35) ↑(1.28)	† (1.47) † (1.26)	↑(1.40)	1 (1.29)	↑(2.17) ↑(1.86)	(1.84) (1.89)	† (1.79)	1 (1.44)	↑(2.07) ↑(1.43)	† (1.57)				\$\frac{1}{4} \text{(0.77)}
Intestine	Ĵ (1.80)	1(1.93)	† (2.46) † (1.57)	↑ (2.48) ↑ (1.60)	↑ (1.80)	(1.96)	↑(3.39) ↑(2.11)	↑(3.30) ↑(2.09)	1 (2.93)	↑ (2.49)	† (3.02) † (1.15)	↑(2.79) ↑(1.13)	(€8.0)	↑ (1.30)	(17.0)↑	(92.0)
Spleen	f (2.07)	† (2.16)	† (3.44) † (2.10)	↑ (3.85) ↑ (1.53)	(1.97)	f (1.78)	† (2.86) † (1.96)	† (2.69) † (1.83)	•	† (2.23)	1 (1.27)	† (2.47) † (1.29)	(19:0)	† (1.40)	↓ (0.46) ↓ (0.68)	(6.79) -
		CST	T			CPX	X			GR	R			GGPD	PD	
Liver	† (1.31)	† (1.57)	†(1.84) †(1.46)	↑(1.66) ↑(1.53)	† (1.47)	1(1.63)	† (1.65) † (1.17)	↑(1.80) ↑(1.26)	•		(0.77) -	↓ (0.67) ↓ (0.78)	(0.78)	,	(75.0)	_ ↑ (0.53)
Lung					(89.0) ↑	(0.80)	(35.0) 1	↓ (0.73)			↓(0.61) ↓(0.71)		(0.77)	(1.17)	↓ (0.44) ↓ (0.51)	Ť (1.20)
Kidney	Ĵ (1.83)	(98.0) ↑	(0.77) -		(0.85)		↓ (0.78) ↓ (0.93)	(9′.0)	•		(0.67) -			† (1.23)	1 (1.20)	↑(1.19) ↑(1.41)
Heart	(0.21)	(0.78)	, ,	↓ (0.73)	(0.47)	(0.74)	↓ (0.07) ↓ (0.22)	↓(0.17) ↓(0.28)	†(I.1I)	(0.73)	(0.76)	↓ (0.51) ↓ (0.71)	•	(9T'L)	(£9.0)↑ -	† (1.25) † (1.50)
Brain	↓ (0.24)	(08.0)		(0.70)	(65.0)	↓ (0.72)	(0.30) ↓ (0.69)	↓ (0.45) ↓ (0.62)			(0.58)	↓ (0.67) ↓ (0.84)	T (1.47)		↑(2.01) ↑(1.87)	
Intestine	(0.38)		↓ (0.67) ↓ (0.86)		(65.0) ↑	(0.73)	↓ (0.37) ↓ (0.71)	↓ (0.54) -	† (1.20)		(1.09)		ı	•	†(1.22) †(1.14)	†(1.18) †(1.25)
Spleen	(0.84)	(69:0) ↑	(0.55) -	↓ (0.73) •	↓ (0.52)	↓ (0.63)	↓ (0.40) ↓ (0.88)	↓ (0.53) ↓ (0.85)			↓ (0.73) -	↓ (0.75) -		† (1.39)	↓ (0.23) ↓ (0.34)	↑(1.20) ↑(1.38)

FIG. 13

	DNTR	DXTR	LOOH	TBARS	G6PD	GGCS	GPX	GR	GSH	GST
Organ										
Brain			G, GD, R	GD, G-R	R, G-GD	R, G-GD	GD-R, G-GD	G-GD, G-R, GD-R	G, GD, R	G, GD
Heart	G-GD, G-R	G-GD, G-R	R, G-GD	G, GD, R	THR	THR	R, G-GD	THR	G-GD, G-R	G, GD, R
Intestine			GD, G-R	G, GD, R	GD, R	GD, G-R	G-GD, G-R	GD, G-R	G, GD, R	THR
Kidney			G-GD, G-R	G-R	GD, R	G-GD, G-R	GD-R, G-GD	G-GD, G-R		R, G-GD
Liver			G, GD, R	GD, G-R	G, G-R	G-GD	R, G-GD	G, GD	G, GD, R	R, G-GD
Lung	:		R, G-GD	G, G-R	R, G-GD		G-GD	G-GD, G-R	G, GD	G, GD
Spleen			GD-R, G-GD	G, GD, R	G-GD, G-R, GD-R	THR	G	G-GD, G-R	G, GD, R	G-GD, G-R

G → Genotype main effect

GD → Gender main effect

R→ Radiation main effect

G-GD \rightarrow Genotype-Gender two way effect

G-R → Genotype-Radiation two way effect

GD-R → Gender-Radiation two way effect

THR → Three way effect (Gender-Genotype-Radiation)